PFENT COOPERATION TREATY

From the INTERNATIONAL BUREAU

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

Commissioner **US Department of Commerce**

United States Patent and Trademark

Office, PCT

2011 South Clark Place Room

CP2/5C24

Arlington, VA 22202

Date of mailing (day/month/year) 31 October 2000 (31.10.00)	ETATS-UNIS D'AMERIQUE in its capacity as elected Office			
International application No. PCT/SG99/00020	Applicant's or agent's file reference YWC/99358451			
International filing date (day/month/year) 22 March 1999 (22.03.99)	Priority date (day/month/year)			

Applicant						
	•	_	_	82	 	

BAO, Feng et al

1.	The designated Office is hereby notified of its election made:
	X in the demand filed with the International Preliminary Examining Authority on:
	15 September 2000 (15.09.00)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).
	BEST AVAILABLE COPY

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

S. Mafla

Telephone No.: (41-22) 338.83.38

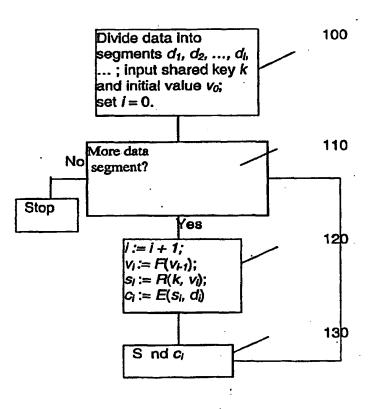


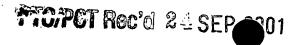


INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7: H04L 9/00	A1	(11) International Publication Number: WO 00/57595
		(43) International Publication Date: 28 September 2000 (28.09.00)
(21) International Application Number: PCT/SG(22) International Filing Date: 22 March 1999 (22)		CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
 (71) Applicant (for all designated States except US): KENTDIGITAL LABS [SG/SG]; 21 Heng Mui Keng Singapore 119613 (SG). (72) Inventors; and (75) Inventors/Applicants (for US only): BAO, Feng [37 West Coast Park, #04-06, Parkview Condo, S127653 (SG). DENG, Huijie, Robert [SG/SG]; Rise, Singapore 267110 (SG). (74) Agent: HELEN YEO & PARTNERS; 80 Raffles Place UOB Plaza 1, Singapore 048624 (SG). 	Terrac [CN/SG Singapo 2 Nam	e, With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.]; re
	. •	·
(54) Title: METHOD AND APPARATUS FOR ENCRYI	PTING	AND DECRYPTING DATA
(57) Abstract		

A method and apparatus for encrypting and decrypting data is disclosed which employs two or more cryptographic algorithms to achieve high throughput without compromizing security. The invention is especially useful for software implementation to protect large amounts of multimedia data over high-speed communication channels.





INTERNATIONAL SEARCH REPORT



CLASSIFICATION OF SUBJECT MATTER IPC7: H 04 L 9/00 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC7: H 04 L; H 04 N Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPI, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Relevant to claim No. Citation of document, with indication, where appropriate, of the relevant passages EP 0676876 A1 (INTERNATIONAL BUSINESS MACHINES 1.14,24,37 Α CORPORATION) 11 October 1995 (11.10.95) abstract; page 3, line 33 - page 4, line 22; page 4, line 53 - page 5, line 8; fig. 1-4,6 1,14,24,37 WO 96/08912 A2 (TITAN INFORMATIONS SYSTEMS) 21 March Α 1996 (21.03.96) abstract; page 7, line 1 - page 11, line 15; fig. 1-3 1,5,6,24,28,29 US 5664016 A (PRENEEL et al.) 2 September 1997 (02.09.97) Α column 2, lines 54-67; column 6, lines 47-60; fig. 5. JP 10-178421 A (TOSHIBA). Patent abstracts of Japan, Vol. 98, No. 11, 1.24 Α 30 September 1998 (30.09.98) Further documents are listed in the continuation of Box C. See patent family unnex. "T" later document published after the international filing date or priority Special categories of cited documents; date and not in conflict with the application but cited to understand "A" document defining the general state of the art which is not the principle or theory underlying the invention considered to be of particular relevance "X" document of particular relevance; the claimed invention cannot be "E" earlier application or patent but published on or after the international considered navel or cannot be considered to involve an inventive step filing date "L" document which may throw doubts on priority claim(s) or which is when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be cited to establish the publication date of another citation or other considered to involve an inventive step when the document is special reason (as specified) combined with one or more other such documents, such combination "O" document referring to an oral disclosure, use, exhibition or other being obvious to a person skilled in the art "&" document member of the same patent family "P" document published prior to the international filing date but later than the priority date claimed Date of mailing of the international search report Date of the actual completion of the international search 23 August 2000 (23.08.2000) 21 August 2000 (21.08.2000) Name and mailing adress of the ISA/AT Authorized officer Austrian Patent Office Hajos Kohlmarkt 8-10; A-1014 Vienna Telephone No. 1/53424/410 Facsimile No. 1/53424/535

Form PCT/ISA/210 (second sheet) (July 1998)



INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/SG 99/00020

		document cited search report	Publication date		Patent t memb		Publication date
EP	A1	676876	11-10-1995	GB	· A0	9406613	08-06-1994
LP	N.I	0,00,0		GB	A1	2288519	13-10-1995
				JP	A2	7281596	27-10-1995
				US	A	5548648	20-08-1996
JP	A2	10178421	30-06-1998			none	
US	A	5664016	02-09-1997			ποπε	
WO	A2	9608912	21-03-1996	AU	Al	04619/96	29-03-199
WO	A3	9608912	06-06-1996	CA	AA	2199526	21-03-199
***		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		EP	A1	787391	06-08-199
				EP	A4	787391	08-04-199
				US	A	5796829	18-08-199

PATENT COOPERATION TREATY

From the INTERNATIONAL PRELIMINARY EXAMINATION AU	THORITY			
To:	PCT			
HELEN YEO & PARTNERS CT Rec'd 80 Raffles Place #33-00 UOB Plaza 1 SINGAPORE 048624 REPUBLIC OF SINGAPORE	NOTIFICATION OF RECEIPT OF DEMAND BY COMPETENT INTERNATIONAL EXAMINING AUTHORITY (PCT Rules 59.3(e) and 61.1(b), first sentence and Administrative Instructions, Section 601(a)) Date of mailing (day/month/year) 19 October 2000 (19.10.00)			
Applicant's or agent's file reference	IMPORTANT NOTIFICATION			
YWC/99358451	IMPORTANT NOTIFICATION			
International application No. International filing dat PCT/SG 99/00020 22 March 1999				
Applicant KENT RIDGE DIGITAL LABS et al.				
receipt of the demand for international preliminary exar	Preliminary Examination Authority considers the following date as the date of mination of the international application: er 2000 (15.09.00)			
2. The date of receipt is:				
the actual date of receipt of the demand by	this Authority (Rule 61.1(b)).			
the actual date of receipt of the demand on	behalf of this Authority (Rule 59.3.1(e)).			
the date on which this Authority has, in response to the invitation to correct defects in the demand (Form PCT/IPEA/404), received the required corrections.				
in the demand does (do) not have the effect of post (or later in some Offices) (Article 39(1)). Therefor from the priority date (or later in some Offices) (A	ration of 19 months from the priority date. Consequently, the election(s) made sponing the entry into the national phase until 30 months from the priority date e, the acts for entry into the national phase must be performed within 20 months rticle 22). For details, see the PCT Applicant's Guide, Volume II. the information given by telephone, facsimile transmission or in person			
4. Only where paragraph 3 applies, a copy of this notificat	ion has been sent to the International Bureau.			
Name and mailing address of the IPEA/AT	Authorized officer			
Austrian Patent Office Kohlmarkt 8-10	Koch			
A-1014 Vienna				
Facsimile No. 1/53424/200 Form PCT/IPEA/402 (July 1998)	Telephone No. +43 / 1 / 53424 - 450			

IPEN AT

PCT

CHAPTER II

DEMAND

under Article 31 of the Patent Cooperation Treaty:

The undersigned requests that the international application specified below be the subject of international preliminary examination according to the Patent Cooperation Treaty and hereby elects all eligible States (except where otherwise indicated).

For	International Preliminary	Examining Authority	use only	
AUSTRIAN PATENT OFFICE		15 September 2000 (15.09.00)		
Identification of IPEA		Date of receipt of DEMAND		
Box No. I IDENTIFICATION OF T	HE INTERNATIONAL	APPLICATION	Applicant's or agent's file reference YWC/99358451	
International application No.	International filing date	(day/month/year)	(Earliest) Priority date (day/month/year)	
PCT/SG 99/00020	22 March 1999	(22.03.1999)	N.A.	
Title of invention	<u> </u>			
METHOD AND APPARATUS I	FOR ENCRYPTING A	ND DECRYPTING	DATA	
Box No. II APPLICANT(S)				
Name and address: (Family name followed by The address must include p	given name; for a legal entity,	full official designation.	Telephone No.:	
The address must include p KENT RIDGE DIGITAL LA		.,	(65) 874-7588	
21 Heng Mui Keng Teri			Facsimile No.:	
SINGAPORE 119613			(65) 776-8109	
REPUBLIC OF SINGAPORI	Ε		Teleprinter No.:	
			N.A.	
State (that is, country) of nationality:		State (that is, count	ry) of residence:	
	SG		SG	
Name and address: (Family name followed by	given name; for a legal entity, f	full official designation. Th	e address must include postal code and name of country.)	
BAO, FENG				
37 West Coast Pa	rk			
#04-06, Parkview	Condo			
SINGAPORE 127653	4 B 0 B B			
REPUBLIC OF SING.	APORE			
State (that is, country) of nationality:	CN	State (that is, coun	(ry) of residence:	
Name and address: (Family name followed b	y given name; for a legal entity,	full official designation. T	he address must include postal code and name of country.)	
D. D	222			
DENG, HUIJIE, RO	BERT			
2 Namly Rise SINGAPORE 267110				
REPUBLIC OF SING				
State (that is, country) of nationality:	SG	State (that is, country) of residence:		
	ას 	<u></u>		
Further applicants are indicated of	on a continuation sheet.			

Sheet No. 2

mztiona	l application No.
CT/SG	99/00020

BOX NO. III AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CO	RRESPONDENCE	
The following person is X agent common representative		
and X has been appointed earlier and represents the applicant(s) also for international preliminary examination.		
is hereby appointed and any earlier appointment of (an) agent(s)/common represer	ntative is hereby revoked.	
is hereby appointed, specifically for the procedure before the International Prelimithe agent(s)/common representative appointed earlier.	inary Examining Authority, in addition to	
Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.)	Telephone No.: (65) 2161-609	
HELEN YEO & PARTNERS		
80 Raffles Place	Facsimile No.:	
#33-00 UOB Plaza 1 SINGAPORE 048624	(65) 557-2322	
REPUBLIC OF SINGAPORE	Teleprinter No.:	
THE COURT OF THE C	N.A.	
Address for correspondence: Mark this check-box where no agent or common r space above is used instead to indicate a special address to which correspondence	epresentative is/has been appointed and the e should be sent.	
Box No. IV BASIS FOR INTERNATIONAL PRELIMINARY EXAMINATION		
Statement concerning amendments:*		
1. The applicant wishes the international preliminary examination to start on the basis of	:	
X the international application as originally filed		
the description as originally filed		
as amended under Article 34		
the claims as originally filed		
as amended under Article 19 (together with any accompanyin	g statement)	
as amended under Article 34		
the drawings as originally filed		
as amended under Article 34		
2. The applicant wishes any amendment to the claims under Article 19 to be consider	ered as reversed.	
3. The applicant wishes the start of the international preliminary examination to be prefrom the priority date unless the International Preliminary Examining Authority under Article 19 or a notice from the applicant that he does not wish to make such box may be marked only where the time limit under Article 19 has not yet expired	receives a copy of any amendments made amendments (Rule 69.1(d)). (This check-	
Where no check-box is marked, international preliminary examination will start on as originally filed or, where a copy of amendments to the claims under Article 19 and/or a under Article 34 are received by the International Preliminary Examining Authority before or the international preliminary examination report, as so amended.	mendments of the international application	
Language for the purposes of international preliminary examination: Englis	h	
Which is the language in which the international application was filed.		
which is the language of a translation furnished for the purposes of internation	onal search.	
which is the language of publication of the international application.		
which is the language of the translation (to be) furnished for the purposes of	international preliminary examination.	
Box No. V ELECTION OF STATES		
The applicant hereby elects all eligible States (that is, all States which have been designathe PCT)	ted and which are bound by Chapter II of	
excluding the following States which the applicant wishes not to elect:		

Sheet No. . 3.

PCT/SG 99/00020

Box No. VI CHECK LIST				
The demand is accompanied by the following elem Box No. IV, for the purposes of international pref	nents, in the language refe liminary examination:	rred to in		onal Preliminary uthority use only not received
1. translation of international application	:	sheets		
2. amendments under Article 34	:	shects		
copy (or, where required, translation) of amendments under Article 19		sheets		
4. copy (or, where required, translation) of	•	Silects		
statement under Article 19	:	sheets		
5. letter	: 1 (one)	sheets		
6. other (specify)	:	sheets		
The demand is also accompanied by the item(s) ma	rked below:			
1. X fee calculation sheet	4.	ļ	explaining lack of sign	
2. separate signed power of attorney	5.		and or amino acid seq eadable form	uence listing in
copy of general power of attorney; reference number, if any:	6.	other (spec	ify):	
Box No. VII SIGNATURE OF APPLICANT, A	AGENT OR COMMO	N REPRESE	ENTATIVE	
Next to each signature, indicate the name of the person signing	g and the capacity in which the	person signs (if	such capacity is not obviou	s from reading the demand).
/ ~	•			
YEW WOON CHOOI (Ms)				
HELEN YEO & PARTNERS				
For Internation	onal Preliminary Examin	ng Authority	use only	
ł	September 2000	_		
Adjusted date of receipt of demand due to CORRECTIONS under Rule 60.1(b):				·
The date of receipt of the demand is AFTER the expiration of 19 months from the priority date and item 4 or 5, below, does not apply. The applicant has been informed accordingly.				
The date of receipt of the demand is WITHIN the period of 19 months from the priority date as extended by virtue of Rule 80.5.				
5. Although the date of receipt of the demand is after the expiration of 19 months from the priority date, the delay in arrival is EXCUSED pursuant to Rule 82.				
	For International Burea	use only		
Demand received from IPEA on:				

CHAPTER II

PCT

FEE CALCULATION SHEET

Annex to the Demand for international preliminary examination

	For International Preliminary Examining Authority use only
International application No. PCT/SG 99/00020	
Applicant's or agent's file reference YWC/99358451	Date stamp of the IPEA
Applicant	
KENT RIDGE DIGITAL LABS	
Calculation of prescribed fees	
·)	II .
Preliminary examination fee A	TS 2,200.00 P
2. Handling fee (Applicants from certain States are entitled to a reduction of 75% of the handling fee. Where the applicant is (or all applicants are) so entitled, the amount to be entered at H is 25% of the handling fee.)	TS 2,022.76 H
3. Total of prescribed fees Add the amounts entered at P and H and enter total in the TOTAL box	TS 4,222.76 TOTAL
Mode of Payment	
authorization to charge deposit account with the IPEA (see below) cash	
cheque revenue sta	umps ·
postal money order coupons	
bank draft X other (spec	:i6):
transfer to at oester	veichische postparkasse
m Via una	(No. 05760.000)
Deposit Account Authorization (this mode of payment may not be	available at all IPEAs)
	tal fees indicated above to my deposit account.
	the conditions for deposit accounts of the IPEA so permit) is hereby yor credit any overpayment in the total fees indicated above to
Deposit Account Number Date (day/month/year)	Signature



PTO/PET REC'PCT - SEP 2001

NOTICE INFORMING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

(PCT Rule 47.1(c), first sentence)

From the INTERNATIONAL BUREAU

To:

HELEN YEO & PARTNERS 80 Raffles Place #33-00 UOB Plaza 1 Singapore 048624 SINGAPOUR

perel,

Date of mailing (day/month/year)

28 September 2000 (28.09.00)

Applicant's or agent's file reference

YWC/99358451

IMPORTANT NOTICE

International application No.

PCT/SG99/00020

International filing date (day/month/year) 22 March 1999 (22.03.99)

Priority date (day/month/year)

Applicant

KENT RIDGE DIGITAL LABS et al.

 Notice is hereby given that the International Bureau has communicated, as provided in Article 20, the international application to the following designated Offices on the date indicated above as the date of mailing of this Notice:

In accordance with Rule 47.1(c), third sentence, those Offices will accept the present Notice as conclusive evidence that the communication of the international application has duly taken place on the date of mailing indicated above and no copy of the international application is required to be furnished by the applicant to the designated Office(s).

2. The following designated Offices have waived the requirement for such a communication at this time:

EP,JP,SG

The communication will be made to those Offices only upon their request. Furthermore, those Offices do not require the applicant to furnish a copy of the international application (Rule 49.1(a-bis)).

 Enclosed with this Notice is a copy of the international application as published by the International Bureau on 28 September 2000 (28.09.00) under No. WO 00/57595

REMINDER REGARDING CHAPTER II (Article 31(2)(a) and Rule 54.2)

If the applicant wishes to postpone entry into the national phase until 30 months (or later in some Offices) from the priority date, a demand for international preliminary examination must be filed with the competent International Preliminary Examining Authority before the expiration of 19 months from the priority date.

It is the applicant's sole responsibility to monitor the 19-month time limit.

Note that only an applicant who is a national or resident of a PCT Contracting State which is bound by Chapter II has the right to file a demand for international preliminary examination.

REMINDER REGARDING ENTRY INTO THE NATIONAL PHASE (Article 22 or 39(1))

If the applicant wishes to proceed with the international application in the national phase, he must, within 20 months or 30 months, or later in some Offices, perform the acts referred to therein before each designated or elected Office.

For further important information on the time limits and acts to be performed for entering the national phase, see the Annex to Form PCT/IB/301 (Notification of Receipt of Record Copy) and Volume II of the PCT Applicant's Guide.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

J. Zahra

Telephone No. (41-22) 338.83.38

Continuation of Form PCT/IB/308 NOTICE IN MING THE APPLICANT OF THE COMMUNICATION OF THE INTERNATIONAL APPLICATION TO THE DESIGNATED OFFICES

Date of mailing (day/month/year) 28 September 2000 (28.09.00)	IMPORTANT NOTICE
Applicant's or agent's file reference YWC/99358451	International application No. PCT/SG99/00020

The applicant is hereby notified that, at the time of establishment of this Notice, the time limit under Rule 46.1 for making amendments under Article 19 has not yet expired and the International Bureau had received neither such amendments nor a declaration that the applicant does not wish to make amendments.

PCT POPOT Rector is selection

REQUEST

			se only	
International Applic	ation No.			_
				٠.
International Filing	Date			
Name of receiving	Office and "	PCT Intern	national Appli	cation"

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty. Applicant's or agent's file reference YWC/99358451 (if desired) (12 characters maximum) Box No. I TITLE OF INVENTION METHOD AND APPARATUS FOR ENCRYPTING AND DECRYPTING DATA Box No. II APPLICANT Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) This person is also inventor. Telephone No. (65) 874 7588 KENT RIDGE DIGITAL LABS Facsimile No. 21 Heng Mui Keng Terrace (65) 776 8109 SINGAPORE 119613 Teleprinter No. REPUBLIC OF SINGAPORE N.A. State (that is, country) of nationality: State (that is, country) of residence: SG SG This person is applicant all designated all designated States except the United States the States indicated in for the purposes of: States the United States of America of America only the Supplemental Box Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S) Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State This person is: of residence is indicated below.) applicant only BAO, FENG 37 West Coast Park applicant and inventor #04-06, Parkview Condo inventor only (If this check-box is marked, do not fill in below.) SINGAPORE 127653 REPUBLIC OF SINGAPORE State (that is, country) of nationality: State (that is, country) of residence: CN SG This person is applicant all designated all designated States except the United States of America the United States of America only the States indicated in the Supplemental Box for the purposes of: Further applicants and/or (further) inventors are indicated on a continuation sheet. Box No. IV AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE The person identified below is hereby/has been appointed to act on behalf common representative |X | agent of the applicant(s) before the competent International Authorities as: Name and address: (Family name followed by given name: for a legal entity, full official designation. The address must include postal code and name of country.) Telephone No. (65) 4221-609 (DID) HELEN YEO & PARTNERS Facsimile No. 11 Collyer Quay (65) 225-1586 #12-01 The Arcade SINGAPORE 049317 Teleprinter No. REPUBLIC OF SINGAPORE N.A. Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.

	<u> </u>	Sheet No.	2				
Continuation of Box No.	III FURTAR A	PPLICANT(S) A	ND/OR (FURT	HER) IN	TOR(S)		
If none of the following sub-boxes is used, this sheet should not be included in the request.							
Name and address: (Family designation. The address in address indicated in this Bod of residence is indicated be DENG,	x is the applicant's Sta	ate (that is, country)	egal entity, full of try: The country of residence if no	official of the State	This person	is:	
2 Naml	y Rise			Ì	X applic	ant and inventor	
SINGAPORE 267110 REPUBLIC OF SINGAPORE						or only (If this check-box ked, do not fill in below.)	
State (that is, country) of a	nationality:		State (that is, SG	-	f residence:	<i>-</i>	
This person is applicant for the purposes of:	all designated States	all designated the United Str	States except ates of America		United States America only	the States indicated in the Supplemental Bo	
19 She #01-42 SINGAP	rust include postal cod x is the applicant's St	le and name of cour ate (that is, country)	urv. The country	of the	applic invent	is: ant only ant and inventor or only (If this check-box, led, do not fill in below.)	
State (that is, country) of i	nationality:		State (that is,	country) o	f residence:		
This person is applicant for the purposes of:	all designated States	all designated the United Sta	States except ates of America		United States America only	the States indicated in the Supplemental Bo	
Name and address: (Famili designation. The address in address indicated in this Bo	ix is the applicant's St	riven name; for a l de and name of cour ate (that is, country)	egal entity, full outry. The country of residence if n	official of the oState	This person	n is: Cant only	
of residence is indicated be	::(ow.)				applic inves	cant only cant and inventor stor only (If this check-box rked, do not fill in below.)	
of residence is indicated be State (that is, country) of			State (that is,	country) o	applic invectis ma	cant and inventor	
State (that is, country) of This person is applicant			State (that is,	tbx	applic invertis ma	tor only (If this check-borrhed, do not fill in below.)	
State (that is, country) of	nationality: all designated States ily name followed by must include postal coox is the applicant's S	given name; for a side and name of cou	d States except bates of America legal entity, full patry. The country	official	applic inverse in many inverse in many inverse only This perso appli appli inverse in	the States indicated the Supplemental B	
State (that is, country) of This person is applicant for the purposes of: Name and address: (Fami designation. The address address indicated in this B	nationality: all designated States ily name followed by must include postal co ax is the applicant's Selow.)	given name; for a side and name of cou	d States except bates of America legal entity, full patry. The country	official y of the	applic inventis and inventis and inventis and inventis and inventis application inventis and invention and	the States indicated the Supplemental But is: cant only (If this check-box riked, do not fill in below.) the States indicated the Supplemental But is: cant only cant and inventor inter only (If this check-box riked, do not fill in below.)	
State (that is, country) of This person is applicant for the purposes of: Name and address: (Familiarist address indicated in this B of residence is Indicated b State (that is, country) of This person is applicant for the purposes of:	nationality: all designated States ily name followed by must include postal co ax is the applicant's Selow.)	the United Sagiven name; for a de and name of country tate (that is, country the United Saginate the United Saginate	d States except tates of America legal entity, full intry. The country) of residence if it states (that is, and States except tates of America	official y of the to State country) o	applic inverse is made in the second in the second is made is made is made in the second in the seco	the States indicated the Supplemental B is:	

Box No		DESIGNATION OF STATES							
	The following designations are hereby made under Rule 4.9(a) (mark the applicable check-boxes; at least one must be marked):								
Region	Regional Patent								
	AP	ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, SD Sudan, SZ Swaziland, UG Uganda, TW Zimbabwe, and any other State which is a Contracting State of the Harare Protocol and of the PCT							
	EA	Eurasian Patent: AM Armenia, AZ Azerbaijan, E Moldova, RU Russian Federation, TJ Tajikistan, TM of the Eurasian Patent Convention and of the PCT	BY B 1 Twd	nistan, and any othe	er State which is a Contracting State				
Ø		European Patent: AT Austria, BE Belgium, CH and LI Switzerland and Liechtenstein, CY Cyprus, DE Germany, DK Denmark, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, and any other State which is a Contracting State of the European Patent Convention and of the PCT							
	A CARRED LA DE Publica Fora RIP min CF Commit African Republic CG Congo, CI Côte d'Ivoire, CM Cameroon								
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				Lithuania					
		Amenia		Luxembourg					
		Austria		Latvia					
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		Bosnia and Herzegovina		K The former Viigo	slav Republic of Macedonia				
		Barbados	L						
		Bulgaria		N Mongolia					
		Brazil							
		Belarus							
		Canada		Norway					
		and LI Switzerland and Liechtenstein	Н						
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		Finland							
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		Grenada		K. Sierra Leone					
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	_		CI	-boxes reserved for	designating States (for the purposes of				
		R Republic of Korea	8.1	onal patent) which one of this sheet:	have become party to the PCT after				
1 0		Z Kazakhstan							
[C Saint Lucia	느						
		K Sri Lanka							
ľ] I.	JR Liberia							

Precautionary Designation Statement: In addition to the designations made above, the applicant also makes under Rule 4.9(b) all other designations which would be permitted under the PCT except any designation(s) indicated in the Supplemental Box as being excluded from the scope of this statement. The applicant declares that those additional designations are subject to confirmation and that any designation which is not confirmed before the expiration of 15 months from the priority date is to be regarded as withdrawn by the applicant at the expiration of that time limit. (Confirmation of a designation consists of the filing of a notice specifying that designation and the payment of the designation and confirmation fees. Confirmation must reach the receiving Office within the 15-month time limit.)

See Notes to the request form ☐ LR Liberia



Sheet No.4

Box No. VI PRIORITY CI	LAIM		Further pri	ority claims an indicated	in the Sup	plemental Box.		
Filing date	Number		Where earlier application is:					
of earlier application (day/month/year)	of earlier application	natio	onal application: country	regional application:* regional Office		nal application: ving Office		
item (1)	1 415				<u> </u>			
item (2)								
item (3)								
The receiving Office is re of the earlier application(quested to prepare and	transmit to t	he International E	Bureau a certified copy e Office which for the	<u>.</u>			
numbered of the present in	iternational annucalio	n is the recei	171/18 O//100/ 100111			to the Powis		
• Where the earlier application is Convention for the Protection of	s an ARIPO application, Industrial Property for w	it is mandaiw thich that earl	ry to indicate in the lier application was	. C. malamaniai KAY AI 18ASI	e Supplemen	tal Box.		
	ONAL SEARCHING	T		arlier search; referenc	e to that se	earch (if an earlier		
Choice of International Search (if two or more International Search competent to carry out the interthe Authority chosen; the two-let	earching Authorities are national search, indicate	search has	been carried out by month/year)	y or requested from the Inte	rnational se	arching Authority): (or regional Office)		
ISA /AT	ner code may be usedy.	Daily (12)						
Box No. VIII CHECK LIS	T; LANGUAGE OF	FILING						
This international application the following number of she		national app		panied by the item(s) man	rked below	:		
request :	4 1. 🖂 10		power of attorne	Y				
description (excluding	9 2. [4] \$2	ny of genera	I power of attorne	y; reference number, if a	any:			
sequence listing part) :			aining lack of sign					
claims :				n Box No. VI as item(s):				
drawings :				cation into (language):				
sequence listing part	- 7 - 5	narate indica	mons concerning	deposited microorganism	or other b	iological material		
of description		icleotide and	or amino acid se	quence listing in compute	er readable	form		
Total number of sheets:		her (specify)			_			
Figure of the drawings whi should accompany the abstra	ich 1 (One)	Langua	ge of filing of the	ENGLISH				
Par No DV SIGNATUR	E OF APPLICANT	OR AGENT						
Next to each signature, indicate th	e name of the person signit	ig and the capa	city in which the pers	on signs (if such capacity is no	x obvious fro	m reading the reques		
·	A	4						
	HELEN YEO &	PARTNE	ERS					
		T .	ving Office use or	nlv				
Date of actual receipt of international application	f the purported	- rorrecei	Anik Office are of	.,		2. Drawings:		
Corrected date of actual timely received papers the purported internation	I receipt due to later bu or drawings completin	ıt g				received:		
Date of timely receipt of corrections under PCT	of the required					not received		
5. International Searching (if two or more are com	Authority ICA /		6. Tran	smittal of search copy de search fee is paid.	layed			
(11 the of more are con-		For Interna	tional Bureau use	only				
Date of receipt of the receipt by the International Bures	ord copy	1 Of Buchild			-			
				······································	See No	es to the request		

See Notes to the request form

Deposit Account No.

PCT	For receiving Office use only
FEE CALCULATION SHEET	Table 1
Annex to the Request	International application No.
· · · · · · · · · · · · · · · · · · ·	
Applicant's or agent's file reference YWC/99358451	Date stamp of the receiving Office
Applicant	
KENT RIDGE DIGITAL LABS	
CALCULATION OF PRESCRIBED FEES	
1. TRANSMITTAL FEE	135 T
2. SEARCH FEE	
International search to be carried out by AT	in the interest of
(If two or more International Searching Authorities are competent in relational application, indicate the name of the Authority which is chosen to carry out the	international search.)
3. INTERNATIONAL FEE	
Basic Fee The international application contains 23 sheets.	
first 30 sheets) Ы
x= -	b2
remaining sheets additional amount	820 B
Add amounts entered at b1 and b2 and enter total at $B \ . \ . \ . \ .$	820 B
Designation Fees	
The international application contains $\frac{4}{190}$ designations.	760
number of designation fees amount of designation fee	700 [B]
payable (maximum 10)	
Add amounts entered at B and D and enter total at I	1580 1
(Applicants from certain States are entitled to a reduction of 75 international fee. Where the applicant is (or all applicants are) so entitotal to be entered at I is 25% of the sum of the amounts entered at E	70 of the stilled, the
4. FEE FOR PRIORITY DOCUMENT (if applicable)	- P
1	
5. TOTAL FEES PAYABLE	
Add amounts entered at T, S, I and P, and enter total in the TOTA	
The designation fees are not paid at this time.	
MODE OF PAYMENT	
authorization to charge deposit account (see below) bank draft	coupons
X cheque	other (specify):
postal money order revenue stamps	
DEPOSIT ACCOUNT AUTHORIZATION (this mode of payment	at may not be available at all receiving Offices)
	ces indicated above to my deposit account.
(this check-box may be marked only if the	ne conditions for deposit accounts of the receiving Office so permit) is
hereby authorized to charge any deficient deposit account.	ncy or credit any overpayment in the total fees indicated above to my
is hereby authorized to charge the fee for Bureau of WIPO to my deposit account.	preparation and transmittal of the priority document to the International

Signature

Date (day/month/year)

[1996 Ed. p. 129

SECOND SCHEDULE — continued

PATENTS FORM 48

SINGAPORE PATENTS ACT (CHAPTER 221) PATENTS RULES Rule 117

The Registrar, Registry of Patents.

PAYMENT OF TRANSMITTAL FEE UNDER RULE 14 OF THE REGULATIONS UNDER THE PATENT CO-OPERATION TREATY

NOTES:

- This form should be completed by the applicant(s) who filed an international application for a patent (Singapore), who should enter his/their name(s) and address(es) and the number of the relevant International Application in the spaces provided.
- Attention is drawn to rules 90 and 105 of the Patents Rules. 2.

KENT RIDGE DIGITAL LABS
I/We
SINGAPORE 119613
REPUBLIC OF SINGAPORE
the applicant(s) in respect of an international application for a patent (Singapore) filed under the Patent Co-operation Treaty, having international application No transmit the transmittal fee payable in accordance with rule 14(1) of the Regulations under the Patent Co-operation Treaty in respect of my/our international application.
Signature(s) Date 20 March 19.99 (See note 2)
HELEN YEO & PARTNERS
Name of Agent (if any)
Address for service in Singapore to 11 Collyer Quay #12-01 The Arcade, SINGAPORE
which all communications should be sent049317

	ENTCO	JEERA LION	IRE
From the INTERNATIONAL	CCARCUNG ALITHORIT	v	

To: HELEN YEO & PARTNERS 11 Collyer Quay #12-01 The Arcade SINGAPORE 049317 REPUBLIC OF SINGAPORE, O 1 CED 2

PCT

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT OR THE DECLARATION

(PCT Rule 44.1)

PTO/PET Rec'o 2 - SEV 255	Date of mailing (duy/montly/year) 23 August 2000 (23.08.00)
Applicant's or agent's file reference YWC/99358451	FOR FURTHER ACTION See paragraphs 1 and 4 below
International application No.	International filing date (day/month/year)
PCT/SG 99/00020	22 March 1999 (22.03.99)
Applicant	
KENT RIDGE DIGITAL LABS et al.	

1.	☑ The applicant is hereby notified that the international search report has been established and is transmitted herewith.
	Filing of amendments and statements under Article 19: The applicant is entitled, if he so wishes, gto amend the claims of the international application (see Rule 46):
	When? The time limit for filing such amendements is normally two months from the date of transmittal of the international search report; however, for more details, see the notes on the accompanying sheet.
	Where? Directly to the International Bureau of WIPO 34, chemin des Colombettes
	1211 Geneva 20. Switzerland Facsimile No.: (41-22) 740.14.35
	For more detailed instructions, see the notes on the accompanying sheet.
2.	The applicant is hereby notified that no international search will be established and that the declaration under Article 17(2)(a) to that effect is transmitted herewith.
3.	With regard to the protest against payment of (an) initial fcc(s) under Rule 40.2, the applicant is notified that: the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the text of both the protest decision thereon to the designated Offices no decision has been made yet on the protest; the applicant will be notified as soon as a decision is made.
4.	Further action(s): The applicant is reminded of the following:
	Shortly after 18 months from the priority date, the international application will be published by the International Bureau. If the applicant wishes to avoid or postpone publication, a notice of withdrawal of the international application, or of the priority claim, must reach the International Bureau as provided in Rules 90bis. 1 and 90bis.3, respectively, before the completion of the technical preparations for international publication.
	Within 19 months from the priority date, a demand for international preliminary examination must be filed if the applicant whishes to postpone the entry into the national phase until 30 months from the priority date (in some Offices even later).

Name and mailing address of the IPEA/AT	Authorized officer
Austrian Patent Office Kohlmarkt 8-10	Koch
A-1014 Vienna Facsimile No. 1/53424/200	Telephone No. +43 / 1 / 53424 - 450

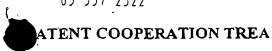
Within 20 month from the priority date, the applicant must perform the prescribed acts for entry into the national phase before all

could not be elected because they are not bound by Chapter II.

designated Offices which have not been elected in the demand or in a later election within 19 months from the priority date or

Form PCT/ISA/220 (July 1998)

65 557 2322



PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	EON EL METIER	state at the form	A Silver of the Count Book
YWC/99358451	FOR FURTHER ACTION		al of International Search Report as, where applicable, item 5 below.
International application No.	International filing de	ie (day/monih/year)	(Earliest) Priority Date (day/month/year)
PCT/SG 99/00020	22 March 199	9 (22.03.1999)	·
Applicant			
KENT RIDGE DIGITAL LA	.BS et al.		
This international search report has been according to Article 18. A copy is bein			ority and is transmitted to the applicant
This international search report consist	s of a total of 3	sheets.·	
lt is also accompani	ed by a copy of each	prior art document cited in	this report.
Basis of the report With regard to the language, language in which it was file			asis of the international application in the
the international search Authority (Rule 23.1(b)		ne basis of a translation of th	e international application furnished to this
b. With regard to any nucleotic search was carried out on the			international application, the international
contained in the internal	tional application in	wriπen form.	
filed together with the in	nternational applicat	ion in computer readable for	m.
furnished subsequently	to this Authority in v	written form.	
furnished subsequently	to this Authority in c	computer readable form.	
the statement that the su international application as fi			es not go beyond the disclosure in the
the statement that the in been furnished.	formation recorded	in computer readable form is	s identical to the written sequence listing has
2. Certain claims were for	und unscarchable	(See Box I).	
3. Unity of invention is la	acking (See Box 11).		
4. With regard to the title,			
the text is approved as	submitted by the app	licant.	
the text has been estable	ished by this Author	ity to read us follows:	
5. With regard to the abstract,			
the text is approved as	submitted by the app	licant.	
the text has been estable within one month from	ished, according to I the date of mailing	Rule 38.2(b), by this Authori of this international scarch re	ty as it appears in Box III. The applicant may, eport, submit comments to this Authority.
6. The figure of the drawings to be	published with the s	abstract is Figure No.: 1	_
as suggested by the app			None of the figures.
because the applicant t	ailed to suggest a fig	ure.	
because this figure bett	er characterizes the	invention.	

Form PCT/ISA/210 (first sheet) (July 1998)



Form PCT/ISA/210 (second sheet) (July 1998)

International application No. PCT/SG 99/00020

CLASSIFICATION OF SUBJECT MATTER IPC7: H 04 L 9/00 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) IPC7: H 04 L; H 04 N Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPI, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with indication, where appropriate, of the relevant passages' Relevant to claim No. Category EP 0676876 A1 (INTERNATIONAL BUSINESS MACHINES 1,14,24,37 Α CORPORATION) 11 October 1995 (11.10.95) abstract; page 3, line 33 - page 4, line 22; page 4, line 53 - page 5, line 8; fig. 1-4,6 1.14.24.37 WO 96/08912 A2 (TITAN INFORMATIONS SYSTEMS) 21 March A 1996 (21.03.96) abstract; page 7, line 1 - page 11, line 15; fig. 1-3 US 5664016 A (PRENEEL et al.) 2 September 1997 (02.09.97) 1,5,6,24,28,29 A column 2, lines 54-67; column 6, lines 47-60; fig. 5. JP 10-178421 A (TOSHIBA). Patent abstracts of Japan, Vol. 98, No. 11, 1,24 Α 30 September 1998 (30.09.98) See patent family unnex. Further documents are listed in the continuation of Box C. "T" later document published after the international filing date or priority Special categories of cited documents: date and not in conflict with the application but cited to understand "A" document defining the general state of the art which is not the principle or theory underlying the invention considered to be of particular relevance "X" document of particular relevance; the claimed invention cannot be "E" earlier application or patent but published on or after the international considered novel or cannot be considered to involve an inventive step filing date "L" document which may throw doubts on priority claim(s) or which is when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be cited to establish the publication date of another citation or other considered to involve an inventive step when the document is special reason (as specified) combined with one or more other such documents, such combination "O" document referring to an oral disclosure, use, exhibition or other being obvious to a person skilled in the art "&" document member of the same patent family .P" document published prior to the international filing date but later than the priority date claimed Date of the actual completion of the international search Date of mailing of the international search report 23 August 2000 (23.08.2000) 21 August 2000 (21.08.2000) Name and mailing adress of the ISA/AT Authorized officer Austrian Patent Office Hajos Kohlmarkt 8-10: A-1014 Vienna Telephone No. 1/53424/410 Facsimile No. 1/53424/535



Information on patent family members

International application No. PCT/SG 99/00020

Patent document cited in search report					Patent 1 memb	Publication date	
EP	A1	676876	11-10-1995	GB	A0	9406613	08-06-1994
	7.1	0,0070		GB	A1	2288519	13-10-1995
				JP	A2	7281596	27-10 - 1995
				ບຣ	A	5548648	20-08-1996
ĴΡ	A2	10178421	30-06-1998			none	
os	A	5664016	02-09-1997			none	
WO	A2	9608912	21-03-1996	ΑU	Al	44619/96	29-03-1996
WO	A3	9608912	06-06-1996	CA	AA	2199526	21-03-1998
			•	EP	A1	787391	. 06-08-1997
				EP	A4	787391	08-04-1998
				US	Α	5796829	18-08-1996

PATENT COOPERATION TREATY

PCT

REC'E 1	DEC 2001
11.5	PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

FOR FURTHER ACTION

Applicant's or agent's file reference

International Patent Classification (IPC) or national classification and IPC

YWC/hc/99358451

PCT/SG 99/00020

IPC⁷: H04L 9/00

International application No.

See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416) International filing date (day/month/year) Priority Date (day/month/year) 22 March 1999 (22.03.1999)

Applicant Kent Ridge Digital Labs et al.							
 This international preliminary examination report has been prepared by this International Preliminary Examination Authority and is transmitted to the applicant according to Article 36. 							
2. This REPORT consists of a total of 4 sheets	2. This REPORT consists of a total of sheets, including this cover sheet.						
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
These annexes consist of a total of		RECEIVED					
3. This report contains indications relating to the following	g items:	FEB 1 9 2002					
I. Basis of the opinion							
II. Priority		Technology Center 2100					
III. Non-establishment of opinion with reg	gard to novelty, inven	tive step and industrial applicability					
IV. Lack of unity of invention							
V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement							
VI. Certain documents cited							
VII. Certain defects in the international app	plication						
VIII. Certain observations on the international application							
Date of submission of the demand	Date of completion of this report						
15 September 2000 (15.09.2000)	15 No	ovember 2001 (15.11.2001)					
Name and mailing address of the IPEA/AT	Authorized offic	er					
Austrian Patent Office Kohlmarkt 8-10	1	MESA PASCASIO					
A-1014 Vienna							
Facsimile No. 1/53424/200	Telephone No. 1	/53424/ 32 7					

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/SG 99/00020

I.		Basis of the report
1.	Wit	th regard to the elements of the international application:*
	\boxtimes	the international application as originally filed
		the description:
		pages, as originally filed
		pages, filed with the demand
		pages, filed with the letter of
	سا	the claims:
		pages, as originally filed pages, as amended (together with any statement) under Article 19
		pages filed with the demand
		pages, filed with the letter of
	Ш	the drawings:
		pages as originally filed
		pages, filed with the demand
		pages, filed with the letter of
		the sequence listing part of the description:
		pages, as originally filed
		pages, filed with the demand
		pages, filed with the letter of
2.	whic	h regard to the language, all the elements marked above were available or furnished to this Authority in the language in ch the international application was filed, unless otherwise indicated under this item. se elements were available or furnished to this Authority in the following language which is:
		the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
		the language of publication of the international application (under Rule 48.3(b)).
		the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/ or 55.3).
3.		h regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international iminary examination was carried out on the basis of the sequence listing:
		contained in the international application in printed form.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority in written form.
		furnished subsequently to this Authority in computer readable form.
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
4.		The amendments have resulted in the cancellation of:
		the description, pages
		the claims, Nos
		the drawings, sheets/fig
5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
iı	n this	cement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and
	(0.17). Inv re	placement sheet containing such amendments must be referred to under item I and annexed to this report

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/SG 99/00020

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
1. Statement					
Novelty (N)	Claims	1-46	YES		
	Claims		NO		
Inventive step (IS)	Claims	1-46	YES		
	Claims		NO		
Industrial applicability (IA)	Claims	1-46	YES		
	Claims		NO		
Citations and explanations (Rule 70.	7)				

The following documents have been cited in the Search Report:

D1: EP 0676876 A1 D2: WO 96/08912 A2 D3: US 5664016 A D4: JP 10-178421 A

Document D1 provides an encryption method and system for encrypting data suitable for sending to a decryption party. Therefore, the data is divided into control and data segments of varying length, wherein the control blocks contain the whole information necessary to decrypt the data contained in the encrypted data blocks.

Document D2 provides a conditional access system for encrypted information segments from data service providers. Therefore, a decrypter which deciphers received data segments using session key which is used in encryption algorithm for one of conditional access processes is provided.

Document D3 provides a compressing method for data encryption with data segments of equal length. Working variables are then introduced for preparing the data segments with key dependent constants.

Document D4 provides a method for encrypting data packets using two shared keys in a two step process. After that the key is modified and is used for the next packet.

However, the present application provides a method for encrypting data, wherein different cryptographic keys for encrypting are used. The cryptographic keys are shared with the decrypting party. Thus, the provided features cannot be found as a whole in the cited documents.

Accordingly, the present application is considered to be new and inventive.

INTERNATIONAL RELIMINARY EXAMINATION REPORT

International application No. PCT/ SG 99/00020

Supplemental Box (To be used when the space in any of the preceding boxes is not sufficient)								
Continuation of: Box V (page 1)								
Industrial applicability is given.								
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				•				
		•						
					ļ			